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BS News

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People in Glass Houses

There's an old saying which goes..."people in glass houses shouldn't throw stones" and it's something which everybody — be it in business or personal relationships — should bear in mind when judging others. It's all about credibility... "let he who is without sin among you cast the first stone" sort of thing.

What's this got to do with building services, you ask? A great deal BSNews suggests.

There is no denying that all sectors of the industry need policing, that there is a grave need for an injection of honesty and integrity into trading relationships. However, who does the policing and who appoints those people to do the task is another case in point. Ideally, the process should be all-industry led and more or less self-selecting with the full approval of all concerned.

But of course this is the real world and ideals, while desirable and something to strive for, are very often impossible to realise. Not that this should be a deterrent to those seeking to improve the overall situation.

Hence the move by heating and plumbing merchants to regularise trading practices and form themselves into a united, cohesive body must be applauded. To date they have met on three occasions, decided on a provisional title of "Heating, Plumbing & Allied Merchants Association" and elected a Chairman, Secretary and Published by ARROW@TU Dublin, 1993

Treasurer. A committee has also been elected. Membership is £100.

Initial aims and objectives are presented as: - Agreement on credit control; what constitutes a merchant?; closer cooperation between merchants; closer liaison with manufacturers; elimination of improper procedures regarding sales; the establishment of liaison/cooperation procedures with Bord Gais.

To date, it's unclear what numbers have actually joined and contributed their £100 membership fee. It is known that the vast majority of leading

merchants have attended, or been represented, at each of the three meetings. However, there are those who have expressed doubts as to the manner in which the situation is unfolding, fearing that a two-tier merchant system may emerge. It's far too early to judge what the final outcome will be. At this stage the overall aims and objectives must be supported but it is incumbent on those spearheading the initiative to ensure that all individuals adopting high profile positions within the fledgling association are in a position to do so. Remember where we came in...people in glass houses...

Projects Not Yet Coming Through

The Construction Industry Council, a pan-industry alliance between the professional and business organisations involved in the construction industry, was launched recently by the Minister for the Environment, Michael Smith, TD.

Mrs Mirette Corboy, Chairperson of the Construction Industry Council, said that the industry had initiated this alliance in order to provide a cohesive voice for accelerated development of the Irish economy.

She called on the Government to introduce an action plan which is

• Continued on page 2

ISO 9002 for Satchwell Grant



Jack Dodd, Regional Manager, Satchwell Grant pictured with Brian Cowan, TD, Minister for Transport, Energy & Communications and Managing Director, Niall Grant, at the presentation of the ISO 9002 Award to Satchwell Grant by the Minister in Jury's Hotel, Dublin, earlier this month. Satchwell Grant is the only controls company in Ireland with ISO 9002 accreditation, its sister controls company in Northern Ireland (and the Group's panel manufacturing plant) both having the equivalent BS 5750 approval. (See also page 4).

How light industry handles heavy jobs

Building Services News, Vol. 32, No. 1 (1997), p. 1



Grundfos pumps help light industry handle an impressive array of demanding jobs. The food and beverage industry, reverse osmosis filtration systems, machine tool operations, and oil production platforms are just a few areas where Grundfos keeps business running smoothly. In increasing numbers, our pumps are incorporated into other products.

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The Association of Consulting Engineers of
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The Mechanical Engineering Contractors'
Association;
The Institute of Domestic Heating Engineers
(IDHE);
The Registered Heating Contractors
Association;
The Maintenance, Energy & Environmental
Technology Association (MEETA);
The Institute of Plumbing;
The Irish Home Builders Association (IHBA);
Builders Merchants/Trade Supply Outlets.

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circulates to independent building services
contractors and key executives in industry.
Government, Semi-State and local authority
bodies. Essentially, our circulation is virtually
saturation coverage of all those with an
interest and/or involvement in the industry.

Contents

PAGE 2

TRADE NEWS

Mark Eire Goes to Country ; Interclima Almost Booked Out; Tads – Air Handling
Software Package; Barlo Acquires Veba NV Of Belgium; ISO 9002 for Satchwell
Grant; New-Look Octabuild Awards; GT Phelan/ Toshiba Classic; BSS Establishes
Process Division; Quality Mark for Irish Estates; BTU – Results Hermitage 10/6/93;
Win with Grundfos



Class 1 winner Brendan Sweeney pictured at the prize-giving ceremony at the
recent BTU outing at Hermitage. Results on page 7.

PAGE 8

COMPANY PROFILE

York – Leadership Through Innovation

PAGE 10

ADVANCE SALES LEADS

PAGE 11

POTTERTON MYSON PREMIER GOLF TOURNAMENT

Early June saw the first annual Potterton Myson Premier Golf Tournament held at
Mount Juliet where a large party of invited guests participated.

PAGE 12

PRODUCT REVIEW: REFRIGERATION

The commercial refrigeration installation will be under the official microscope in the
years to come. National authorities for food safety and energy conservation, and
the EC commission, will all be laying down stricter requirements that will demand
more from your refrigeration units, writes John Sampson of J J Sampson Ltd.

PAGE 19

THE PROTECTION OF RADIATORS – PART 2

In the concluding part of this two-part article, John Lane considers causes of pitting
corrosion other than oxygen ingress, and the reasons for general corrosion.
Preventive measures and the new British Standard Code of Practice are
discussed.

PAGE 20

NEW PRODUCTS

TRADE NEWS

Projects Not Yet Coming Through

• **Continued from cover**
urgently needed to ensure that the Irish economy benefits as soon as possible from the funds allocated for investment in infrastructural and other developments.

"Unless such a plan is implemented quickly to remove the bottlenecks on development, the sharp downturn which the industry feared last January could well materialise this year", Mrs Corboy added.

Mrs Corboy said that, after the announcement of the Public Capital Programme last February and the recent falls in interest rates, the Construction Industry Council had hoped that a downturn this year might well be prevented.

However, the feedback from architects, engineers and quantity surveyors, who work at the early stages of the projects pipeline, indicates that the projects are not yet coming through.

Mark Eire Goes to Country

Mark Eire completed the first phase of a very successful "take the message to the country" tour in Dublin recently at the unusual POD venue off the city's Harcourt Street.

The Mark Eire team of four had already been to the Silver Springs Hotel in Cork and the Limerick Inn on the Ennis Road.

At each venue the company presented a 2-day showing at which representative samples from all but the very largest units in the range were shown.

Included in the displays were

gas-fired unit heaters; free-
<https://arrow.tu Dublin.ie/bsh/vol32/iss6/1>
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Mirette Corboy, Chairperson, Construction Industry Council (President CIF) with Michael Ledwidge, President, Association of Consulting Engineers of Ireland.

RECENT CIBSE ACTIVITIES



Pictured at the joint CIBSE and Property Managers Association meeting in Clyde Road recently were Sean Smith, ABB; Bill King, Property Managers Association; John Cuthbert, CIBSE Chairman; and Teddy Bourke, T Bourke & Co.



Building Services as a career – pictured with a copy of the new CIBSE career guidance video is chairman, John Cuthbert with immediate Past Chairman, John Purcell and Michael McNicholas, ESB, who sponsored the video.

standing gas and oil-fired units, heat recovery ECO fans; Tanner warm water units; radiant plaque units; fan coils; air handling units; custom-built controls; oil and gas burners; flue pipe; and pipe-bending machines.

Interclima Almost Booked Out

The 13th Interclima International Heating, Cooling and Air Conditioning Exhibition will be held, for the first time, at the Parc des Expositions de Paris-Nord Villepinte (9-13 November 1993). As a result of a sharp increase in demand for stands, representing an increase of 16.4% for Interclima, the Blenheim group has managed to obtain halls 1, 2, 3, and 4 of the Villepinte exhibition centre for Interclima and hall 5 for the home area section of Batimat. The net stand space is up from 32,000 square metres (1991) to 38,000 square metres (1993). On 1st March 1993, 95% of this space had been let, representing 550 stands.

The Interclima sectors have been allocated to the halls as follows:

Hall 1: Cooling – pumps, taps, cocks and fittings, pipes, air conditioning tools and equipment;

Hall 2: Air conditioning, ventilation, regulation, measurement and inspection;

Hall 3: Regulation, measurement, inspection, heating, hot water, sanitary units;

Hall 4: Heating, hot water, sanitary units;

Hall 5: This will house the Batimat sectors completing Interclima: sanitary units, sanitary taps, cocks and fittings, bathroom and kitchen furniture.

TRADE NEWS

and fittings, tiles, plumbing and tools.

The organisation of Interclima and the home section of Batimat on a single exhibition site has two advantages. The first is that this forms a homogeneous sector, since the Interclima and Batimat home section exhibitors are complementary.

The second is the increase in space and better conditions for receiving exhibitors and visitors. Particularly for Interclima, the additional 20% of space will expand it significantly, something which was not possible in Hall 1 at Porte de Versailles.

Tads - Air Handling Software Package

Computair Ltd, in conjunction with CAD specialists CCSI, has developed an integrated quotation software system for manufacturers of air handling units.

Even at the initial marketing stage, it has generated considerable interest in the trade with a number of manufacturers already ordering the package and others evaluating it.

The package is called TADS, meaning totally automated design system, which describes exactly what it does. For the first time, an engineer can produce all the documentation and drawings necessary for the production of a unit direct from the CAD system using data that was entered at the quotation stage. This means that the unit is designed at the point of sale rather than at the point of manufacture.

The process bypasses many of the existing procedures in production and drawing offices, eliminates data transfer errors, and ensures that the unit manufactured is exactly the same as the one that was quoted.

Barlo Acquires Veba NV Of Belgium

Barlo Group Plc has acquired the entire share capital of Belgian radiator manufacturer, Veba

NV from its parent company, Royal Begemann NV. In association with this acquisition, Barlo has raised IR£20 million of additional equity in the London and Dublin markets.

Barlo has established a strong



Photographed at the announcement of the acquisition of Veba, Belgium by Barlo Group were, from left, Dr Tony Mullins, Managing Director, Barlo Group; Rudy Van Eysendeyk, General Manager, Veba; and Michael Delahunty, Project Director, Barlo Group.

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TRADE NEWS

market base in Ireland and the UK, and now views the acquisition of Veba NV as the logical next move in building its position as a leading European radiator manufacturer.

Veba NV has major shares of the panel radiator markets in Holland, Belgium and France, as well as a growing business in Spain, Greece and Germany. Barlo Group Managing Director, Dr Tony Mullins, sees this as representing a further bridgehead into Europe where the Group's Barlo panel and Merriot tubular radiators are already marketed.

Following the acquisition of IRG in August last year and a 20% increase in earnings per share in the year ending 31st March 1993, Barlo Group's turnover will, with the acquisition of Veba NV, now top £100 million.

ISO 9002 for Satchwell Grant -

Satchwell Controls Ltd, which was owned by the GEC Group, operated successfully in Ireland for more than 25 years. The company specialises in the area of building management systems controls. In September 1990, following a successful management buyout, the company name changed to Satchwell Grant Ltd — the Managing Director being Niall Grant.

After three years of operation, Satchwell Grant Ltd have managed to maintain the high standards which Satchwell Controls Ltd have set and to which customers and specifiers alike have become accustomed.

The company has carried out major contracts in all parts of Ireland including Dublin Airport, International Financial Services

University College (Galway) and Guinness Ireland.

In March of this year Satchwell Grant was audited by NQA and was successful in obtaining accreditation to ISO9002. It is the first controls company in this field in the Republic of Ireland to gain registration to ISO9002.

In addition, the head office in

Belfast received its accreditation in June 1992 and the control panel manufacturing operation was accredited in April of this year. Earlier this month Minister for Transport, Energy and communications — Brian Cowan TD — presented Niall Grant with the award at a ceremony in Jurys Hotel, Dublin.



Brian Cowan, TD, Minister for Transport, Energy and Communications with Sean Power, TD, Jack Dodd, Regional Manager and Niall Grant, Managing Director, Satchwell Grant.



Brian Brady, Service Manager, SMC with Gerry Moran and Niall Grant, Satchwell Grant.



Niall Grant with Gerry Curran, Gerry Gurrane Associates; and Martin O'Connor and Robert Blake, Aer Rianta.

New-Look Octabuild Awards

More awards, more prizes and more choice are on offer this year in the Octabuild Builders Merchants Awards. This is the seventh year of the awards.

The winner of this year's National Builders Merchant of the Year Award will receive a £3,000 marketing opportunity and there will be a £1,000 staff prize. There will also be regional awards and, merchants who are visited for this award, will receive a detailed assessor's report.

Five new Award categories have also been added this year.

Merchants who choose not to go for the main award can select up to three other Awards for which they will be considered.

Merchants who enter for the main award can also enter for two other category awards.

These awards are — Best family-managed business (under £3 million turnover); Heavy goods range; Best for plumbing/heating; Most improved

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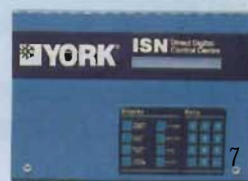
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CONTROLS



TRADE NEWS

merchant and Marketing excellence.

The judging panel includes representatives from the Construction Industry Federation; Irish Hardware Association; Guaranteed Ireland Limited and the national winner from the previous year.

The closing date for entries is 9 July 1993 and initial assessment will begin before the end of July. Merchants being visited will be notified of the week in which the assessors or judges visit will take place.

BSS Establishes Process Division

BSS (Ireland) Ltd has appointed John Quinn – previously a sales engineer with the company – to head up a new process division to service the pharmaceutical and chemical sectors. The company is presently adding to its portfolio of products in this area of the business and using the experience of BSS/IVCO and BSS/AMS. Both companies were recently acquired by the BSS Group Plc.

John Quinn will liaise with specifiers and contractors on the process sector throughout the Republic of Ireland, and both Dublin and Cork branches of BSS (Ireland) Ltd will offer internal technical back-up and stock availability.

Included among the well known product names distributed by BSS/IVCO and BSS/AMS are Worcester Controls, Bray Butterfly Valves, Boss Winn Valves, Grundfos and Wilo pumps. BSS Process Division will be exhibiting at the Chemical & Pharmaceutical Exhibition in Blarney, Co Cork,

in late September 1993.
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GT Phelan/Toshiba Classic

The annual GT Phelan/Toshiba golf classic was held, once again, at the Royal Dublin golf course. A total of 21 invited guests played in excellent conditions which saw some fine scores returned.

Overall winner was Michael Kennedy and he, along with second placed Larry McGettrick, will now proceed to participate in the Toshiba grand final in Portugal later this year.

Christy O'Connor Snr conducted the golf clinic and remained on throughout the day, dispensing valuable advice to those seeking it.



Toshiba Royal Dublin — Michael Kennedy, Overall Winner, receiving his prize from Mike Lavelle, Toshiba.



Mike Lavelle presenting Larry McGettrick with his prize as runner up.



Left: Paddy Horgan with Christy O'Connor Snr and Pat Birkett. Right: Ted Berry, Toshiba UK with Christy O'Connor Snr and Gerry Phelan.



Quality Mark for Irish Estates

Irish Estates (Management) Ltd, the property management company, was recently awarded the Q Mark for quality service by the Irish Quality Association.

Irish Estates manage in excess of £4 million sq ft of property valued in excess of £550 million on behalf of several bluechip clients. It is also the only property management company in Ireland with its own in-house maintenance group.

John A Murphy, Chief Executive of the Irish Quality Association, presented the Award to Larry Kane, Chief Executive of Irish

Estates. Mr Kane said: "Service quality has become increasingly important in the 1990s, and this is now being recognised by all industries. Customers are becoming more discerning, and

they have a wide base from which to choose. They demand the best and, in many cases, you quite simply cannot do business without recognised standards."



John A Murphy, Chief Executive of the Irish Quality Association (left), presents Larry Kane, Chief Executive of Irish Estates (Management) Ltd with the Quality Mark Certificate. Irish Estates is the first property management company to receive the Quality Mark.

TRADE NEWS



Staff at Ireland's largest distributor, Eastern Electrical, are celebrating after becoming the first in their industry sector to be presented with an International Quality Award. Pictured recently receiving the award at the ceremony are (from left to right): James C Darling (NSAI); Brian Cowen, Minister for Transport, Energy, Communications; and Hugh McGee, Managing Director Eastern Electrical.

Win with Grundfos

It was winners all the way with Grundfos this month, the ongoing domestic circulator

competition coming to an end and the annual fishing trip taking place in Dungarvan.

Taking the fishing trip first, the Grundfos party set off for Dungarvan by coach, all set to



Standing – Paul Sandbrook (McKenna Engineering), Michael McDonald (OVE Arup), Tony Mullins (Leo Lynch & Co), Denis Walshe (Grundfos), Eugene Philips (Seamus Homan & Ass), Frank Nugent (H R Holfeld (Hydraulics)), Tony Gray (McArdle McSweeney & Ass).

Front – Peter O'Dowd (Jacobs Intl), Liam McDermott (Grundfos), Declan Malley (VMRA), Robert Holland (Project Mgt), Derek Walters (H A O'Neill).



Picture shows Ray Broughan, Sales Engineer, Grundfos with John Purcell, Arden Heating; Denis Walshe, General Manager, Grundfos (Ireland) Ltd; and John Hamilton, Dun Laoghaire Heating.

engage in outdoor pursuits. The trip itself was uneventful, save for the periodic stop at "watering holes" along the way. Having overnighted at the Clonea Strand Hotel — and engaged in more "refreshments" — the intrepid fishermen took to the high seas the following day in two boats.

Oh how many of them regretted the "watering hole" stop-overs the day before! The weather was unkind to say the least but, nonetheless, one of the boats saw it out to the bitter end, the other

having to return early, so urgent was the need for "terra firma" on the part of those who sailed in her.

However, Frank Purcell of Arden Heating is unlikely to suffer a similar fate when he avails of the £1000 holiday voucher he won in the "Win With Grundfos" domestic circulator competition. Frank won the installer prize while John Hamilton of Dun Laoghaire Heating won the merchant award.

BTU – Results Hermitage 10/6/93

S/S — 37

Sponsor — Lister Tubes

Overall Winner: J Loughlin, Newlands, H/C: 14, Score: 40-1 = 39

Class 1: B Sweeney, Malahide, H/C: 7, Score: 37; P Johnson, Hermitage, H/C: 6, Score: 36; M Morrissey, Dun Laoghaire, H/C: 7, Score: 34.

Class 2: J Lawlor, Blainroe, H/C: 14, Score: 38-1 = 37; J Ennis, Curragh, H/C: 12, Score 36; S Farrell, H/C: 16, Score 35.

Class 3: N McKeon, Newlands, H/C: 18, Score 39-1 = 38; J White, Ardee, H/C: 17, Score 36; B Kearney, Edmondstown, H/C: 22, Score 35.

Back 9: E Vickers, Rush, H/C: 9, Score 18; D Chambers, Sutton, H/C: 22, Score 18.

Front 9: G Phelan, Old Conna, H/C: 15, Score 20; S Kearney, Stackstown, H/C: 12, Score 19.

Visitors: F Redmond, Forest Little, H/C: 20, Score 39; M Kennedy, Slade Valley, H/C: 14, Score 33; S O'Reilly, Roscrea, H/C: 14, Score 31.

Matchplay 3rd Round

M Wyse V E Vickers; J Lawlor V S Smith; L Stenson V J Loughlin; B Daly V B Sheehan.



Overall Winner – John Loughlin

Company Profile

York – Leadership Through Innovation

“Employ nothing but the best labour ... use nothing but the best material ... guess at nothing but test everything ... guarantee our work as second to none ...” the foregoing is a classic representation of today’s business philosophy and something which could be applied to any trading company. However, when one realises that the principles mentioned are some of those adopted by York management in the early 1890s, it is easy to understand their longevity and the level of market penetration the company enjoys worldwide.

After nearly 100 years this commitment still holds good. York still strives to make the best products in the world and



York's purpose-built premises in Ballymount Cross Business Park, Ballymount Cross, Dublin 24.

that still involves using only the best people, the best materials and the best production methods available.

York has always had representation in Ireland in one form or another, be it via product sourced and supplied

direct from the UK or through a locally-appointed agent/distributor.

Approximately 12 months ago York decided that, to offer the level of service — and especially after-sales service — it is committed to, the most appropriate option was to open an office of its own.

Service Manager Nicholas Morrison paved the way, working very closely with Jim Moore, York Area Manager, European Distribution. Completing the senior management team is Sales Manager Austin McDermott who has wide experience of building services in Ireland and, more especially, of air conditioning.

A modern, purpose-built

York Projects

The number and diversity of York installations throughout Ireland is vast and varied and, for the most part, includes virtually all the major and prestigious projects undertaken in recent years. Among them are Sandoz, Dunnes Stores, Intel, Heinz, Nestle, Proctor & Gamble, VHI, Leo Laboratories and Fujisawa.

office/warehouse complex was acquired, strategically located just off the Naas Road in Dublin which allows for easy access to all parts of Dublin and the rest of the country. It comprises over 2,000 sq ft of office and warehouse accommodation and is situated within a new complex called Ballymount Cross Business Park, Ballymount Cross, Dublin 24.

“The volume of business we were doing in Ireland necessitated our own operation in the country”, says Jim Moore. “As a manufacturer, we can’t hide from our responsibilities, nor indeed would we want to. With such a high number of York installations throughout the country — and in such prestigious projects (see



Ralph Morgan, Director, Quality, York CES with Bob Fowler, York Director of Plant Operations and Scott Boxer, Vice-President and General Manager, CES, pictured with the ISO 9002 Award recently.



Majella Byrne, Office Supervisor



Jim Moore, Area Manager, European Division with Sales Manager, Austin McDermott and Nicholas Morrison, Service Manager.

panel) – we believed that the only way to provide the level of service we demand of ourselves was to have a strong presence”.

The after-sales network is now a team of five, specially-trained service engineers who operate out of radio-controlled vehicles which are fully equipped with spares and equipment. A 4-hour response time is aimed for at all times, the maximum being 24 hours. This service applies for 365 days of the year.

York's product portfolio is extensive, the company being the only independent worldwide manufacturer focused solely on the HVACR industry. "This unique focus",

Jim Moore, "coupled with our full complement of quality equipment and services, provides the best comfort and refrigeration value in the marketplace".

Endorsing this dedication to quality, York's international manufacturing plant in Oklahoma recently applied for — and was accredited with — ISO 9002 Certification.

Formal certification of the York plant was marked last month at a presentation by Lloyd's Register Quality Assurance Ltd, an independent UK-base organisation accredited to perform ISO quality system evaluations.

Leadership through innovation is the York motto and this applies both to the development of product itself and also to environmental matters. This is most apparent at present in York's emphasis on CFC-free technology. York currently offers one of the widest selections of CFC-free chillers, utilising all the major alternative refrigerants — 22, 123, 134a, ammonia and water.

Additionally, global manufacturing capability is adapted to serve local needs. Careful attention is given to specific requirements on a country by country basis and local operatives are given the flexibility necessary to make certain that, whatever the local application and need, there is a York product that is just right for the job.

Maintenance Contracts

Similarly, maintenance contracts form a large percentage of York's Irish operation and, once again, these tend to include the likes of Dublin Corporation, Intel, Sandoz, Fujisawa and Allied Foods

INTERCLIMA 93

Paris-Nord Villepinte



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INTERNATIONAL
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REFRIGERATING and
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BATIMAT



9-14 NOV

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BSNews, June 1993 9

ADVANCE SALES LEADS

Newmarket Information, the Dun Laoghaire-based construction information company, provides advance information on new construction projects nationwide – all potential leads for contractors, sub-contractors and suppliers. The company publishes information in the weekly CIS report which provides full project details, contact names, addresses and telephone numbers, design team details and tendering and construction schedules. The following listing is provided by CIS Report and gives a brief description of the types of projects covered. To obtain information on the service phone 01-2809476/2809557.

Limerick:

Johnson and Johnson are expected to set up a major new manufacturing plant in the Limerick area. The company has two Irish subsidiaries, Janssen Pharmaceutical in Little Island, Cork and Johnson and Johnson Ireland Ltd, in Dublin.

Dell Computers plan to expand their facilities on the Raheen Industrial Estate in Limerick. Reported to be the fastest-growing computer firm in the world, Dell employs 350 people at Limerick and may double this figure shortly. The company also operates a sales centre at Boghall Road, Bray, Co Wicklow. Dell is considering a major extension which would effectively double the size of its existing plant.

Coillte, the state forestry board, is at an advanced stage of negotiations with the Louisiana Pacific Corporation to construct a new Oriented Strand Board (OSB) plant in Ireland. An announcement on the new project, which is set to produce 300,000 tonnes of OSB annually is expected at the end of the summer and production could begin by the end of 1994. Possible locations for the new plant include the Shannon Estuary in Limerick.

Galway:

Negotiations are being concluded between the IDA and the **American Power Conversion Corporation**, producers of uninterruptable power supplies for the computer industry, to establish a 300-job project at Digital's, Ballybrit plant in Galway. The company is to take over only a small part of the 6,000 sq m facility

at APC could rise to 600 in the future.

Dublin:

Pharmaceutical company, **Organon (Ireland) Ltd** has been granted planning permission for the construction of extensions, costing over £1 million, to the existing laboratories, locker rooms, offices and car park at their existing pharmaceutical plant at Drynam Road, Swords, County Dublin. Construction work is due to start in June and will take six months to complete.

Haulage contractors, **Johnson Haulage Company Ltd** are to construct a new warehouse and transit shed, additional two-storey offices, together with the reconstruction of an existing warehouse, at the Naas Road, Blackchurch, Rathcoole, Co Dublin. The development is to measure 2,776 sq m.

CIE is expected to seek planning permission shortly for the construction of a new £6 million state-of-the-art bus garage near The Square in Tallaght, Dublin 24. The new garage, measuring approximately 10,000 sq m will include a modern office building.

Mayo:

Allergan Pharmaceuticals (care of Allergan Ireland Ltd) have been given the planning go-ahead for the construction of an extension to the south-east corner of the Lodge Road factory in Westport, Co Mayo, comprising warehousing, a packaging hall and a plant room. Work will start in mid July and will

take six to eight months to complete. Allergan Pharmaceuticals manufacture two therapeutic products, one to be used in the treatment of muscular disorders and the second as a surgical aid in cataract operations.

Allergan Pharmaceuticals Ltd have also been granted planning permission for the erection of a two-storey extension comprising a maintenance shop and a storage room to the north side of the existing premises at Westport in County Mayo.

Computer manual printers, **Berrys Computer Print Ltd** have been granted planning permission for the construction of an extension to their existing premises and car-parking at the Demesne, Westport, Co Mayo.

Westmeath:

Drink distributors, **Dwans and Lennons**, plan to build a new £200,000 warehouse at the Blyry Industrial Estate, Cornamaddy, Athlone, Co Westmeath.

Longford:

Beef and lamb processors, **Kepak (Longford) Ltd** have plans for the construction of an extension to their premises at Ballymahon, Co Longford at a cost of over £200,000.

Kilkenny:

Textile manufacturers, **Comer International Ltd** have been granted planning permission for the construction of an extension to the existing mill at Castlecomer, Co Kilkenny. Work on the single-storey extension is expected to cost around £100,000.

Wexford:

Building contractors, **Byrne & Byrne Ltd** are to construct a replacement of a fire-damaged meat processing plant at Ryland, Bunclody, Co Wexford for meat processors, **Slaney Cooked Meats Ltd**. The new building will cost in excess of £1 million to construct.

Wicklow:

Boehringer Mannheim GmbH has been granted planning permission by Wicklow County Council and Arklow Urban District Council for a major new multi-million pound biochemical production facility at Money Little, Arklow, Co Wicklow.

The 5,148 sq m building includes the two-storey over-basement main production and office area and a utility building and parking space.

Construction work, costing between £5 and £10 million, will start in the Spring of 1994 and will take 15 months to complete. **Jacobs International** are dealing with the overall design brief.

Cavan:

The **Emerald Star Line Limited** is currently seeking planning permission for the erection of a new entrance, driveway, boat shed, boat jetties, septic tank, car parking facilities and ancillaries at Noghan, Belturbet, Co Cavan. The 494 sq m development involves the erection of a single-storey administration building which will include a lounge area and shower facilities.

The Grant Hotel in Malahide is to be extended. The owners are currently seeking planning permission of Dublin Co Council for alterations and extensions comprising — a single-storey link building on the South elevation incorporating; a two-storey escape stairs and internal alterations; a single-storey extension to the conference building on the North elevation incorporating a two-storey corner building; and a single-storey meeting room extension on the East elevation. The development is to be carried out in four phases.

Endree Ltd is seeking planning permission to erect a four-storey extension at the western corner of the **Hibernian Hotel** at Eastmoreland Place, Dublin 4 to create nine extra bedrooms and a conference room. The new building will measure 280 sq m with 1,419 sq m being retained. All of the bedrooms will be double and all will have en-suite facilities. The conference room will have a capacity for 40-50 people. There are 30 bedrooms in the existing hotel.

Cork:

J W Green and Company plan to convert the former **J W Green Mills** at Custom House Street, Cork to a 132 bedroom hotel. The five-storey building will also have a bar, a restaurant and a meeting room at ground floor level with 33 bedrooms on each of the four storeys overhead. The plans also provide for a two-storey carpark measuring 1,436 sq m. The overall development will measure 7,738 sq m.

Potterton Myson Premier Golf Tournament

Early June saw the first annual Potterton Myson Premier Golf Tournament held at Mount Juliet where a large party of invited guests – comprising contractors, consultants, merchants, builders and Bord Gais representatives – competed in testing

conditions. Despite inclement weather, the outing went ahead and proved to be a most enjoyable day for those who participated. Most of the competitors managed to cope with the heavy ground conditions although it did prove too much for some!! The result at the end of the

List of Winners

Overall Winner — John Lyons, 35 points, handicap 15;

Category 1

Winner — Michael O'Brien, Chadwicks: 32 points off handicap 8, won on back nine;

Runner-Up — Mick Matthews, 32 points off handicap 7. Also decided on back nine;

Category 2

Winner — Francis O'Dwyer, 32 points off handicap 18. Won on back nine; Runner-Up — Jerry Maher, 32 points off handicap 15;

Category 3

Winner — Dennis O'Sullivan, 32 points off handicap of 19. Again won on back nine with 21 points; Runner-Up Tom Redmond, 32 points off handicap of 20.

Back Nine

John English, Score of 18 points;

Visitor Winner

Brian Mason on 32 points. Won on back nine with 18 points from Jim Sheehan, Runner-Up;

Staff Winner

Vincent Broderick;

Booby Prizes

Ronnie Webb, Shay Kiernan and Pat Walsh.

day was extremely close with all category winners achieving a score of 32 points. All positions were decided on the strength of the back nine. The overall winner was John Lyons of Irish International Trading Cork, who was

presented with the Potterton Myson Premier Perpetual Trophy by Managing Director, Sean Hanratty, at the excellent dinner later that evening. John is pictured here with Sean, as indeed are some of the other prize winners.



John English, Managing Director, Hevac Ltd, receiving his prize from Sean Hanratty.



Brendan Pluck with Tony Kenna and Dave Morris ... that fiver went 'round and 'round!'



Sean Hanratty (right) presenting Gerry Maher, Dublin Providers, with his prize.



Michael O'Brien, Chadwicks with Sean Hanratty.



Dennis O'Sullivan, Bord Gais, Cork with Sean Hanratty.



John Lyons, Irish International Trading, with Sean Hanratty.

PRODUCT REVIEW

REFRIGERATION

Growing Number of Laws on Refrigeration Systems

The commercial refrigeration installation will be under the official microscope in the years to come. National authorities for food safety and energy conservation, and the EC commission, will all be laying down stricter requirements that will demand more from your refrigeration units, writes John Sampson of J J Sampson Ltd.

EC commission proposals on the compulsory registration of temperature — already in force, food legislation in several countries demands the documented registration of the temperature in all refrigeration and freezing installations at frequent and regular intervals. The proposals of the commission mean that, in order to comply with the law, a choice will have to be made between manual measurements or automatic temperature registration and documentation.

Discontinuation of CFC refrigerants — requirements on the discontinuation of refrigerants harmful to ozone, (the CFC refrigerants) become more strict as

the breakdown of the ozone layer is observed and documented. An international act has been passed that forbids the production of these substances after 1994. This means that the trade will have to find alternatives when repairing, converting, or building new refrigeration plant.

Legislation on energy savings — a large number of energy taxes are already a reality. There are clear signs of a broad agreement in certain European parliaments that the way to energy saving is through further legislation on energy.

Stricter requirements make it sound economic sense to begin investing in energy-saving measures in new buildings. It can also be economically advantageous to begin when making minor conversions or repairs to your existing installations.

Food safety legislation — this will demand continuous temperature logging in refrigeration and freezing installations.

New proposals from the EC commission on documented temperature logging at frequent and regular intervals will confront you with a task you will not be able to deal with manually.

A good and inexpensive answer is a monitoring and alarm system that will ensure:-

- * Continuous temperature logging;
- * The possibility of data storage in compliance with the coming demand of EC;
- * Instantaneous alarm if temperature becomes too high;
- * Facilities for remote adjustment by telephone;
- * The choice as to whether the alarm is to be sent to a central monitoring station, a service centre or a private telephone.
- * A typical system is the Danfoss AKL 25.

In addition, by extending the control system using, say, Danfoss Adap-Kool units, savings may be achieved while complying with foods safety legislation as well as laws on energy consumption and the environment. Such a control system thinks for itself. It consists of a series of controllers and electronic valves that ensure:-

- * Central monitoring;
- * Permanent optimum operation of the refrigeration system;
- * Alarms before the products are

Important References on EC Directives -

There are a number of very important references on EC Directives regarding food safety. These include:-

92/1/EC of 13 January 1992 — concerns temperature control in connection with transport, storage and warehousing of deep frozen food products;

92/2/EC of 13 January 1992 — concerns sampling procedures and EC's analysis method in connection with deep frozen food products;

Food Hygiene (Amendment) Regulations (UK) — guidelines issued by the Department of Health, Environmental Health and Food Safety Division in UK 18 July 1990;

89/108/EEC of 21 December 1988 — concerns the laws of member states relating to quick frozen food produce for human consumption;

88/657/EEC of 14 December 1980 — this lays down the requirements for the production of, and trade in, minced meat, meat in pieces of less than 100 grams and meat preparation and amending directions 64/433/EEC, 71/118/EEC, and 72/462/EEC.

NEW

ABB
ASEA BROWN BOVERI

 **York**[®]

GOLD STANDARD INTELLIGENT AIR COOLED CHILLER

YCAJ - YDAJ



COOLING CAPACITIES 320-1530 kW

YCAD



COOLING CAPACITIES 167-272 kW

ABB Environmental Control Ltd
Belgard Road
Tallaght
Dublin 24
Telephone: (01) 599935
Fax: (01) 599939

Published by ARROW@TU Dublin, 1993

ABB
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PRODUCT REVIEW

REFRIGERATION

affected by temperature changes;

- * Automatic emergency operation that delays the consequences of technical faults;
- * No refrigerant dependence;
- * Remote servicing;
- * Data communication;
- * Data collection.

This gives economic advantages in the form of:-

- * Max. energy savings;
 - * Lower service costs;
 - * Improved quality product;
 - * Less product loss;
 - * Lower insurance premiums,
- irrespective of whether your installation is big or small.

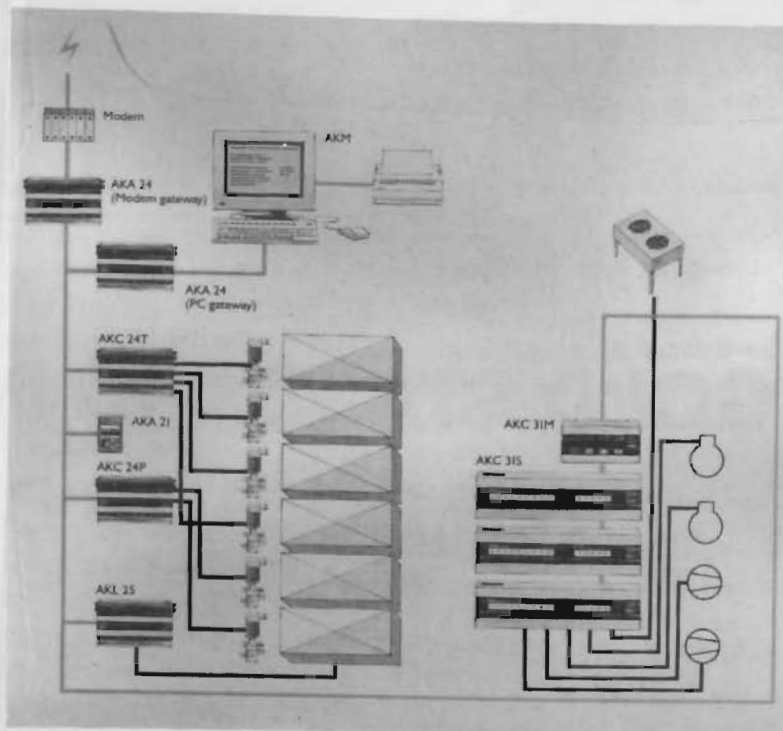
You yourself decide the rate of investment.

Systems such as the Adap-Kool systems are extremely flexible; you are able to decide: whether to make a once-and-for-all investment (as would be typical with new building work and a new installation); or whether to make investments as the need for repairs, renovations and/or conversions arise.

Danfoss Software Packages

Danfoss has developed two very user-friendly, computer-based, control and monitoring systems — AKM and Master 2000.

These give access to all facilities in Danfoss Adap-Kool refrigeration system controls via clear PC screen displays.



Danfoss Adap-Kool — AK20 and 30 systems are used mainly for industrial refrigeration plant.

The AKM System retrieves and sends information to all controllers in the refrigeration plant, such as settings, temperature and pressure measurements, alarms messages, etc. All this information can be sent wherever required, e.g. a central monitoring station that will immediately evaluate the importance of the information.

The Master 2000 system can be tailor-made for not just one or several shops, but for whole buildings. In addition to refrigeration installations, the system will monitor and control heating, ventilation, lighting and burglar alarms. With this system the technician and/or service company has a constant overview of operating conditions.

Details from J J Sampson & Son Ltd, 71 Cherry Orchard Industrial Estate, Ballyfermot Road, Dublin 10. Tel: 01-6268111/6269332; Fax: 01-6269334.

Acid-Away — The Solution to Your Acid Problems

Acids that form in air conditioning and refrigeration systems are very strong. A little bit can do a lot of damage!

Acid left untreated in an air conditioning and refrigeration system will continue to corrode (attack) internal components causing leaks and/or electrical malfunctions to develop. Compressor burnout soon follows.

Until now, there has been no truly effective solution available to completely remove residual acid from the system after a burnout occurs. Any remaining acid trapped in the system "seeds" new failures.

Environmental regulations are

PRODUCT REVIEW

REFRIGERATION

impacting on how compressor change outs are being done, making the work more difficult to do.

Repeat call backs are expensive. Many of the problems listed above can be minimised with Acid-Away. Acid-Away is a uniquely designed (patent pending) chemical treatment for air conditioning and refrigeration systems that have experienced a burnout, or operating systems that are showing buildup in acid content. It is designed to be used with hermetic

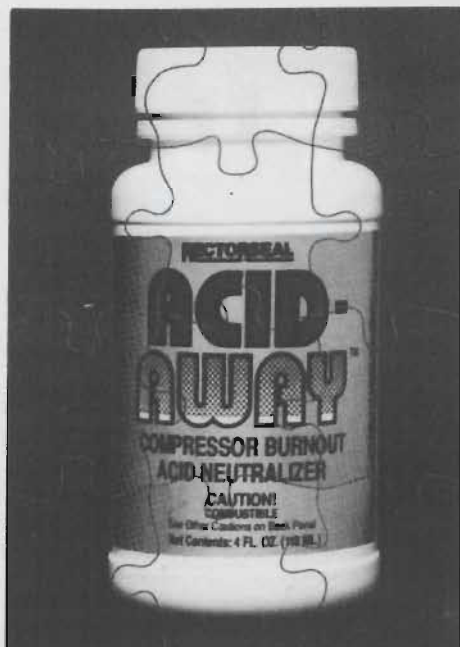
and semi-hermetic compressors that operate with CFC or mineral oil compatible HCFC refrigerants.

Acid-Away circulates quickly throughout systems where it can contact acid wherever it occurs. Immediately upon contact, all acid is chemically neutralised so that it can no longer acts as a corrosive agent on any system component.

COMPRESSOR BURNOUT?

ACID-AWAY, which has been developed in the USA, is designed specifically to deal with the problem of compressor burnout.

THE PROBLEM SOLVED



ACID-AWAY

Completely eliminates acid from air conditioning and refrigeration systems.

ACID-AWAY

Helps in conforming to environmental regulations.

ACID-AWAY

Will help prevent operating system burnout if used during routine maintenance.

ACID-AWAY

Is safe and easy to use.

ACID-AWAY

Saves time and money by preventing costly call-backs.

For further information on product and stockists please contact:



Commercial Polymers International Ltd.

Togal House, George's Place, Dún Laoghaire, County Dublin, Ireland
Telephone: 01-284 1412 Fax: 01-280 7461

PRODUCT REVIEW

REFRIGERATION

It has been extensively field tested under both burnout and maintenance circumstances, in systems with severe acid levels. Rigorous tests have also been conducted in the RectorSeal Corporation laboratory under a wide variety of material compatibility and lubricity conditions, while Acid-Away has also been thoroughly evaluated by a renowned industry-recognised independent testing agency under ASHRAE and ASTM standards.

Benefits include complete elimination of acid from air conditioning and refrigeration systems; prevention of costly call backs due to subsequent compressor failures caused by acid; eliminates the need for expensive (and possibly

illegal) flushing of the system with refrigerants in an attempt to clean up system acid after a compressor burnout; helps prevent operating system burnout (if used during routine maintenance); can be used to treat recovery, recycling, and reclaiming units.

Acid-Away can be hand pumped into a system's liquid (high pressure) line along with refrigeration oil for fastest acid neutralisation.

Details from Commercial Polymers International Ltd, Tegal House, George's Place, Dun Laoghaire, Co Dublin. Tel: 01-2841412; Fax: 01-2807461.

'Gold Standard' Chiller From ABB

GSi — gold standard intelligent — designates the latest range of York air cooled chillers which are now available from ABB. There are two ranges in the series — YCAD

(cooling capacities 167-272kW) and YCAJ-YDAJ (cooling capacities 320-1530kW).

Reliability is a prime factor in the development of Yorks' new products. The York YCAD air cooled chiller is no exception, manufactured from components that have been thoroughly tested to ensure continuous fault-free operation. Yorks' range of air cooled chillers utilise high-efficiency condensers and evaporators with reliable reciprocating compressors. They are built to the highest quality standards incorporating state-of-the-art microcomputer controls and offer owners and tenants a low energy cost combined with trouble-free operation. With more information about chiller operation available, routine maintenance can be accurately scheduled well in advance of actual need.

All components which may require attention are designed to reduce the time — and expense — of both

Danfoss Refrigeration Controls

We fit into your plans...

E.C. Directives and Consumer demands on product quality require increased attention to preparation, storage, transportation and display of food products.

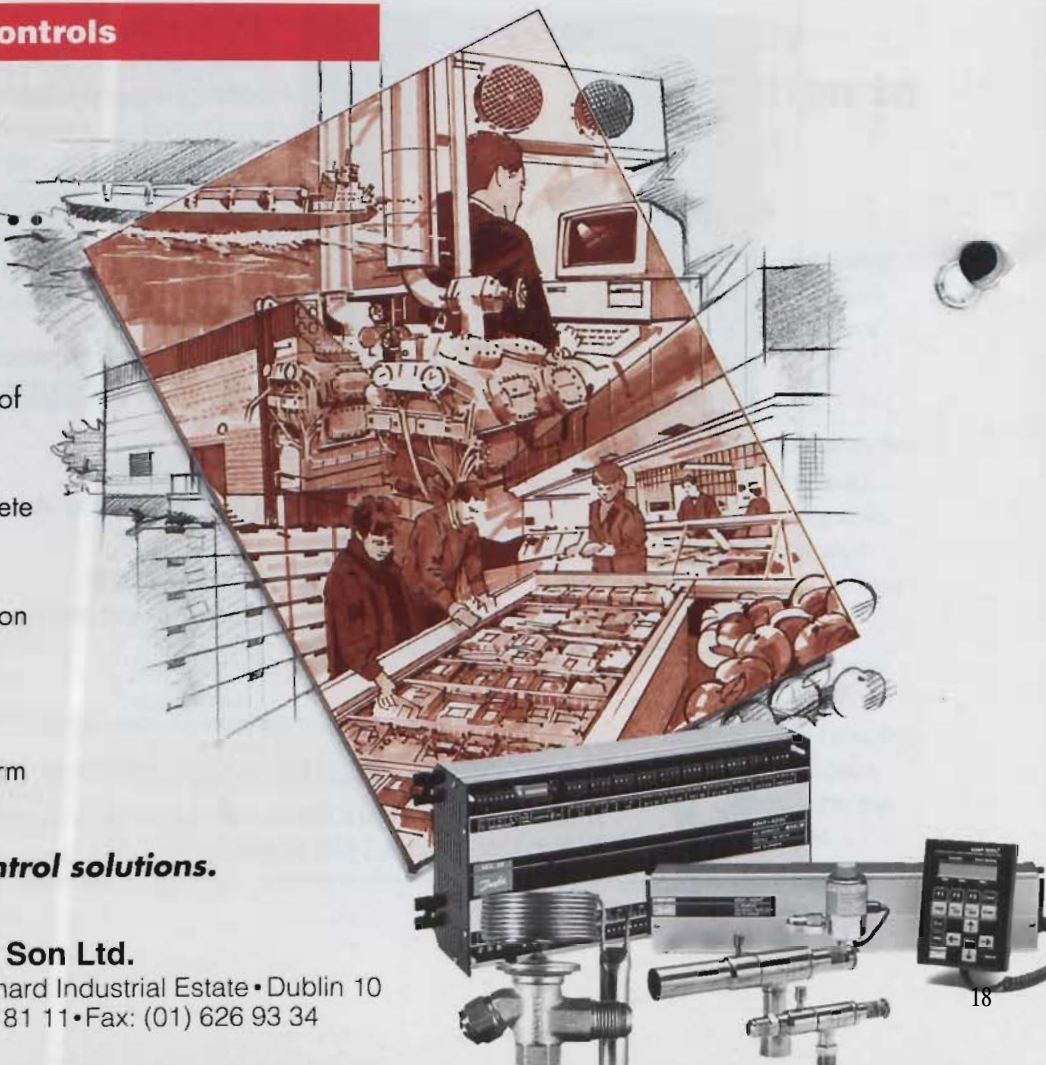
Danfoss ADAP-KOOL® Refrigeration Control Systems offer you the complete solution through,

- Accurate Temperature Control
- Effective use of Energy Consumption
- Improved Humidity Control
- Avoids product Dehydration
- Better product presentation and appearance
- Monitoring, data-logging and alarm facilities

Translate your plans into control solutions.

Contact:

J. J. Sampson & Son Ltd.
Unit 71 • Cherry Orchard Industrial Estate • Dublin 10
Telephone: (01) 626 81 11 • Fax: (01) 626 93 34



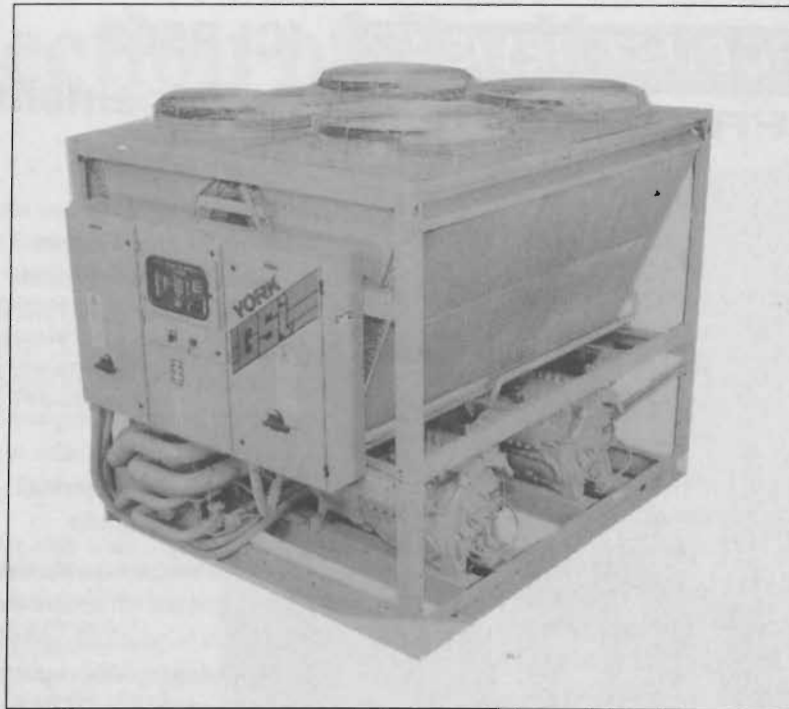
PRODUCT REVIEW

REFRIGERATION

routine and emergency service. Both compressors and motors are fully accessible, and suction screens, sight glasses and filter driers can be serviced quickly and easily without special tools.

Because a chiller spends most of its operating hours at less than full capacity, York has designed the reciprocating liquid chillers with part-load performance in mind. The compressors offer multiple steps of unloading. Each step is automatically selected to reduce energy costs as cooling needs go down.

The York MicroComputer Centre allows the chiller be integrated into a new or existing building automation system. Operational interface capability allows for operating



York YCAD "gold standard intelligent" air cooled chiller from ABB.

commands from the building automation system to be easily communicated to the York MicroComputer Centre.

The York YCAJ and YDAJ chillers offer high performance with small footprints, achieved by combining high efficiency heat exchangers and

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and Air Conditioning Equipment**



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PRODUCT REVIEW

REFRIGERATION

innovative system design. Every component is selected for reliability as a prime requirement. Similarly quiet operation and low energy usage are also key factors.

Together, the YCAJ and duplex version YDAJ chillers provide a complete solution for most chiller applications.

Once again these models are fitted with York's MicroComputer Control Centres, providing ease of operation and compatibility with building automation and energy control systems. Multiple chillers can be linked together for control from a single location and scheduling of load requirements.

By including the necessary design concepts to assure continuous-run reliability it's more than good design — it's intelligent engineering.

Details from ABB Environmental Control Ltd, Belgard Road, Tallaght, Dublin 24. Tel: 01-522622; Fax: 01-599939.

ICI R502 Replacements Available

ICI has developed two new additions to its KLEA family of ozone - benign refrigerants which will enable industry to move quickly and easily from CFCs such as R502. KLEA 60 and KLEA 61 have been specifically designed to meet the requirements of R502 users and are suitable in new and existing low-temperature refrigeration equipment.

Supermarkets, storage, the meat, dairy, food and refrigerated transport industries — which all currently use CFC-containing R502 — could, in most cases, switch to ICI's new and totally ozone-benign blends, KLEA 60 and KLEA 61. These are based on ICI's well established commercial production of the HFC's KLEA 134a and KLEA 32.

This is an important breakthrough. Until now low temperature refrigeration users have had a confusing array of products to choose from and many have been looking to "transitional substances" (HCFCs) for an answer, believing new products will require whole scale system

changes. Both KLEA 60 and KLEA 61 are normally suitable for retrofit with only minor system modifications — and no compressor change!

KLEA 60 is expected to be the usual replacement for R502 — both retrofit and in new equipment. But in a small number of cases, where there are high lift conditions, ICI KLEA is offering KLEA 61 which is based on the same refrigerant components as KLEA 60. Companies who are seeking to retrofit R502 refrigeration systems which operate at -20°C to -40°C at high condensing temperatures might choose to use the KLEA 61 option.

KLEA 60 and KLEA 61 are both non flammable, have no potential to deplete ozone, a low global warming impact, and are fully compatible with ICI's range of synthetic lubricants, EMKARATE RL.

ICI is supplying customers worldwide in the low temperature refrigeration industry. Product is available today through ICI's Global Distributor Network.

Details from RSL Ireland Ltd, 48 Robinhood Industrial Estate, Clondalkin, Co Dublin 22. Tel: 01-508011; Fax: 01-559592.

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The Protection of Radiators

Part 2

In the concluding part of this two-part article, John Lane considers causes of pitting corrosion other than oxygen ingress, and the reasons for general corrosion. Preventive measures and the new British Standard Code of Practice are discussed.

Pitting Corrosion

Flux Residues — Surface filming is usually the result of the presence of excessive flux residue. Fluxes are chemicals which remove surface oxide and thus permit solder to flow and "tin" the surfaces to be joined. Nearly all fluxes are aggressive to some degree so care must be taken with their application. Non-corrosive fluxes are resin-based and only become active once heated to soldering temperature. They work slowly and produce small amounts of hydrochloric acid. It is essential that they are completely decomposed.

More popular are the corrosive fluxes (also called self-cleaning fluxes) which are active at room temperature and therefore less mechanical cleaning is needed. These materials are strongly acid and any excess will continue to react with the base metal (usually copper) until they are widely dispersed and neutralised.

Once present in the system, water copper will plate out on to less noble metal surfaces (mild steel or aluminium) where it forms a corrosion cell. It is a misconception to believe that copper plating protects the radiator.

It would not be unreasonable to estimate that 95% of radiator failures in comparatively new systems are associated with overfluxing during installation.

Chloride — Chloride is a common constituent of water supplies. It is totally soluble. Normal levels are not a problem but high concentrations will accelerate corrosion, particularly of stainless steel, brass and aluminium. The chloride ion also behaves aggressively towards imperfections in metal surfaces, such as localised areas of stress as in radiator curves or welds.

Sources of high chloride include inefficient water softeners, washing-up liquids (misguidedly used to quieten noisy boilers) and excessive flux application.

General Corrosion — General corrosion is characterised by an internal surface where the size and shape of the hole is different from the external "pin-hole". Usually, the hole is larger and pyramidal in shape. This form of attack takes place over a large area often over an extended period. Corrosion due to deposit build up is one of the major causes.

Under-Deposit Corrosion — In existing systems, radiators already fouled with sludge provide conditions ideal for the proliferation of anaerobic bacteria, which produce corrosive substances such as sulphuric acid and hydrogen sulphide. Bacterial activity is also enhanced by the presence of detergents, eg washing-up liquid, which besides emulsifying oils and greases form organic breakdown products which act as nutrients.

Another cause of this form of attack is the presence or absence of dissolved oxygen. The intensity of attack is determined by the difference in concentration of the oxygenated area above the deposit and the area beneath where oxygen access is limited.

Prevention

The old adage that prevention is better than a cure could not be



John Lane

truer than when applied to the domestic central heating system. The cost and inconvenience of repair and other remedial action costs the industry many millions of pounds each year.

Some of the design criteria necessary to minimise the ingress of dissolved oxygen have already been discussed. These are primary considerations in preventing corrosion. The other essential is to get the system off to a clean start.

Cleansing — Flushing is a term often included in the specification for the commissioning of a central heating system. It is a misnomer for cleansing to which every installer attaches his own interpretation. In order to fulfill the minimum requirements, it is necessary only to fill and drain the system once. Even several repeat actions will not remove the debris and foulants present in the average system.

The new British Standard Code of Practice BS7593: 1992, published in January of this year, defines the terms used and the steps necessary to cleanse a system.

In every case it is essential that a proprietary cleansing agent is applied in accordance with the manufacturer's instructions. This is the only way to ensure that foulants such as flux residues, oils, greases, swarf, corrosion debris, etc. are removed.

In the case of a new system, corrosion can begin within hours of the system first being filled with water. This often results in the irreversible copper plating of the radiators, condemning them to potential failure at some point in their lifetime, regardless of preventative steps. Addition of the cleanser with the first fill is therefore highly desirable.

Inhibition — It is a wise precaution and good practice to treat the system water with a corrosion inhibitor. However, it is important that the inhibitor complements the use of a proprietary cleanser. Because of its requirement to form a protective barrier on the metal surface, an inhibitor cannot fully protect a system fouled by sludge, flux residues or other debris.

Conclusions

If care is taken at the design, installation and commissioning stages, there is no reason why radiator failure should not become a phenomenon of the past with the consequent financial rewards being enjoyed by all.

NEW PRODUCTS

LENNOX TEMPO AIR CONDITIONING

The Tempo is the new, state-of-the-art microprocessor controlled air conditioning system from Lennox.

Available in a range of five units — from 2.6kW to 8.7kW — the range is claimed to be the most comprehensive on the market.

Standard benefits include:-

No additional cost for heat pump over cooling only;

Infra-red microprocessor remote controller;

Flare connections;

Outdoor fan relay;

Built in 7-day timer;

Washable air filters;

Automatic air sweep (swing function);

Crankcase Heater;

High pressure switch;

Liquid and gas valves;

Temperature set back facility;

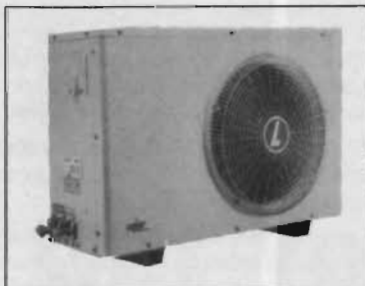
Liquid crystal display;

Built-in dehumidifier as standard;

Extended refrigerant pipework capability; and

Three-year warranty.

Details from Rink Air Conditioning Ltd, Unit 1, Ballymount Cross Business Park, Dublin 22. Tel: 01-569469; Fax: 01-504314.



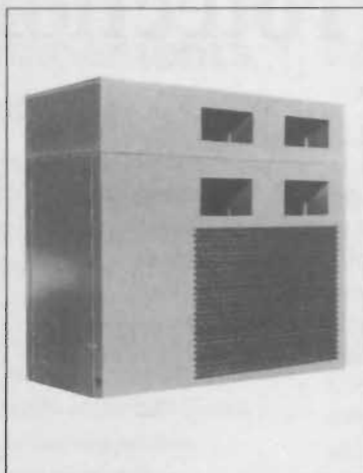
Tempo outdoor units are quiet in operation and can be installed in a variety of locations. Details from Rink Air Conditioning.

FLEXIBILITY OF FORMOST SPLITS

The ability to site external sections internally and draw outside air via a centrifugal fan and duct means that Formost's new split system units are suitable for use where there are no roofs available.

Indoor sections can be configured for horizontal or vertical fan dischargers with the two smallest units in the range, 7kW and 9kW, mountable in a false ceiling as they are 310mm deep.

20 BSNews, June 1992



There are 10 models in the Marelle-Clima "C" range to cover duties from 7 to 73kW available for cooling only (photo) or as heat pumps.

This new Marelle-Clima "C" series covers 10 models with capacities ranging from 7kW to 73kW, which are available for cooling only duties or as heat pumps.

Compressors are housed in acoustically-insulated compartments to reduce noise levels. Up to 34kW capacity units have single compressors and one refrigeration circuit. The three largest units are equipped with two compressors operating on separate circuits.

All electrics are located in a single compartment with a double door for maximum weather protection. Control is by microprocessor, which on the three largest units — 44, 58 and 73kW — has a facility to link into a building management system.

Details from Formost Air Conditioning, Unit 9, Wilford Industrial Estate, Ruddington Lane, Wilford, Nottingham, NG11 7EP, Tel: 00-44-602-455033.

ADVICE ON QUALITY MANAGEMENT

A new publication from CIBSE gives advice on developing a framework to guide and support quality improvements. CIBSE Applications Manual AM9: Quality management systems, clarifies the concept of quality, advises on its application to activities in the building services industry and explains what needs to be done to seek quality assurance certification.

The publication examines the role of management and the allocation of resources; discusses the

implementation of quality systems and looks at the scope of BS5750. It explains the documentation required and reviews the techniques of introducing and assessing a system of quality management. Specific building services applications covered include installation, commissioning and maintenance.

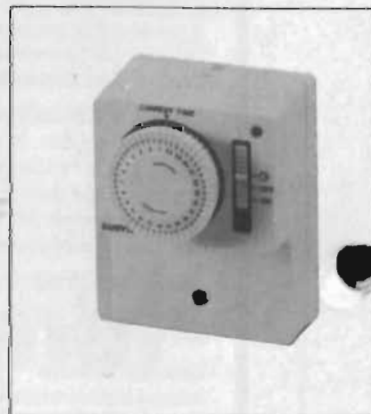
Copies are available from the CIBSE Bookshop, Delta House, 222 Balham High Road, London SW12 9BS.

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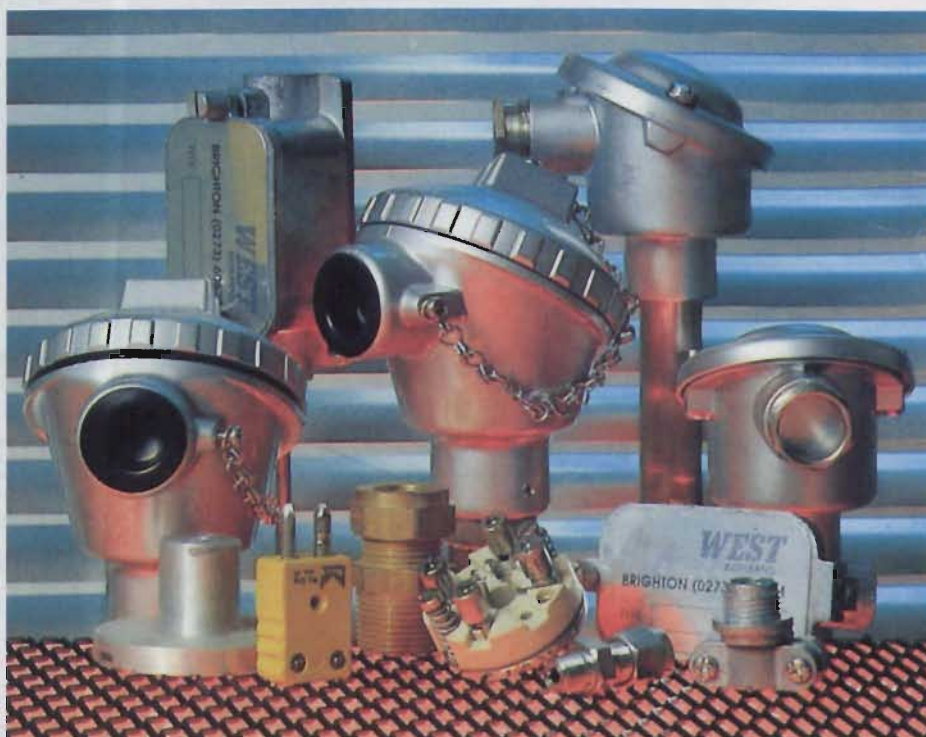
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